

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/537,971
Source: IFWP
Date Processed by STIC: 11/08/2005

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IFWP

RAW SEQUENCE LISTING

DATE: 11/08/2005

PATENT APPLICATION: US/10/537,971

TIME: 12:18:08

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\11082005\J537971.raw

2 <110> APPLICANT: NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY
 3 JAPAN SCIENCE AND TECHNOLOGY AGENCY
 5 <120> TITLE OF INVENTION: Monitor protein for measuring protein processing
 7 <130> FILE REFERENCE: P03-133
 C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/537,971
 C--> 8 <141> CURRENT FILING DATE: 2005-06-09
 8 <150> PRIOR APPLICATION NUMBER: JP2002-360744
 9 <151> PRIOR FILING DATE: 2002-12-12
 W--> 10 <160> NUMBER OF SEQ ID: 5
 11 <170> SOFTWARE: PatentIn version 3.1
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 2502
 15 <212> TYPE: DNA
 16 <213> ORGANISM: mammalian
 18 <400> SEQUENCE: 1
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 23 gctaaagaag gagaatgtat agataccaga tgcgcaacat gtaaaccgaga tatactatca 180
 25 gatggactgt gtgaaaataa accaggggaag acatgctgta gaatgtgcca gtatgtgatt 240
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 29 caggaacctg gtaaatatgt gctggctagg ggaaccaagg gtggcgattg gtctgtaacc 360
 31 ctcaccatgg agaactctaga tggacagaag ggagctgtgc tgactaagac aacactggag 420
 33 gttgcaggag acgtaataga cattactcaa gctactgcag atcctatcac agttaaccgga 480
 35 ggagctgacc cagttatcgc taaccgcgtt acaattgggtg aggtgaccat tgctgttggt 540
 37 gaaataaccgg gcttcaatat cacagtcacg gaattcttta aactaatcgt gattgatatt 600
 39 ctggggaggaa gatctgtgag aattgctcca gacacagcaa acaaaggact gatatctggg 660
 41 atctgtggta atctggagat gaatgacgct gatgacttta ctacagatgc agatcagctg 720
 43 gcgatccaac ccaacataaa caaagagttc gacggctgcc cattctatgg caatccttct 780
 45 gatatcgaat actgcaaagg tctgatggag ccatacagag ctgtatgtcg taacaatatc 840
 47 aacttctact attacactct atcctgtgcc ttcgcttact gtatgggagg agaagaaaga 900
 49 gctaacaacg tccttttcga ctatgttgag acatgcgctg cgccggaaac gagaggaacg 960
 51 tgtgttttat caggacatac tttctatgac acattcgaca aagcaagata tcaattccag 1020
 53 ggcccatgca aggagattct gatggcgcga gactgttact ggaacacatg ggatgtaaag 1080
 55 gtttcacata gagacgtcga atcatacact gaggtagaga aagtaacaat caggaaacag 1140
 57 tcaactgtag tagatctcat tgtggatggc aagcaggtca aggttggagg agtggatgta 1200
 59 tctatcccgat acagctctga gaacacttcc atatactggc aggatggaga catcctgacg 1260
 61 acggccatcc tacctgaagc tcttgctggt aagttcaact ttaagcagct ccttgtagtt 1320
 63 catatcagag atccattcga tggaaagaca tgcggcatat gtggtaacta taatcaagat 1380
 65 tcaactgatg atttctttga cgcagaagga gcatgcgctc taacccccaa cccccaggga 1440
 67 tgtacagagg aacagaaacc agaagctgag cgactttgca ataattctct tgattcttct 1500
 69 atcgacgaga aatgtaattg ctgctacaag cctgaccgga ttgcccgatg tatgtacgag 1560
 71 tattgcctga ggggacaaca aggattttgt gaccatgctt gggagttcaa gaaagaatgc 1620
 73 tacataaaac atggagacac tctagaagta ccacctgaat gtcaaggatc cacagagccc 1680

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77 accggggccc ggaagtcggc ccggaagttg gccaaccagg gatccgtgag caagggcgag 1800
79 gagctgttca ccggggtggt gcccatcctg gtcgagctgg acggcgacgt aaacggccac 1860
81 aagttcagcg tgtccggcga gggcgaggcg gatgccacct acggcaagct gacctgaag 1920
83 ttcattctgca ccaccggcaa gctgcccgtg cccctggcca cctcgtgac caccttcggc 1980
85 tacggcctgc agtgcttcgc ccgctacccc gaccacatga agcagcacga cttcttcaag 2040
87 tccgccatgc ccgaaggcta cgtccaggag cgcaccatct tcttcaagga cgacggcaac 2100
89 tacaagaccc gcgcgaggt gaagttcgag ggcgacaccc tgggtaaccg catcgagctg 2160
91 aagggcatcg acttcaagga ggacggcaac atcctggggc acaagctgga gtacaactac 2220
93 aacagccaca acgtctatat catggccgac aagcagaaga acggcatcaa ggtgaacttc 2280
95 aagatccgcc acaacatcga ggacggcagc gtgcagctcg ccgaccacta ccagcagaac 2340
97 acccccatcg gcgacggccc cgtgctgctg cccgacaacc actacctgag ctaccagtcc 2400
99 gccctgagca aagaccccaa cgagaagcgc gatcacatgg tctgctgga gttcgtgacc 2460
101 gccgcgggga tcaactctcg catggacgag ctgtacaagt aa 2502
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105 <211> LENGTH: 833
106 <212> TYPE: PRT
107 <213> ORGANISM: mammalian
109 <400> SEQUENCE: 2
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115 Asn Cys Gln Asp Ala Cys Pro Val Glu Ala Glu Pro Pro Ser Ser Thr
116 20 25 30
119 Pro Thr Val Pro Thr Ser Cys Glu Ala Lys Glu Gly Glu Cys Ile Asp
120 35 40 45
123 Thr Arg Cys Ala Thr Cys Lys Arg Asp Ile Leu Ser Asp Gly Leu Cys
124 50 55 60
127 Glu Asn Lys Pro Gly Lys Thr Cys Cys Arg Met Cys Gln Tyr Val Ile
128 65 70 75 80
131 Glu Cys Arg Val Glu Ala Ala Gly Tyr Phe Arg Thr Phe Tyr Gly Lys
132 85 90 95
135 Arg Phe Asn Phe Gln Glu Pro Gly Lys Tyr Val Leu Ala Arg Gly Thr
136 100 105 110
139 Lys Gly Gly Asp Trp Ser Val Thr Leu Thr Met Glu Asn Leu Asp Gly
140 115 120 125
143 Gln Lys Gly Ala Val Leu Thr Lys Thr Thr Leu Glu Val Ala Gly Asp
144 130 135 140
147 Val Ile Asp Ile Thr Gln Ala Thr Ala Asp Pro Ile Thr Val Asn Gly
148 145 150 155 160
151 Gly Ala Asp Pro Val Ile Ala Asn Pro Phe Thr Ile Gly Glu Val Thr
152 165 170 175
155 Ile Ala Val Val Glu Ile Pro Gly Phe Asn Ile Thr Val Ile Glu Phe
156 180 185 190
159 Phe Lys Leu Ile Val Ile Asp Ile Leu Gly Gly Arg Ser Val Arg Ile
160 195 200 205
163 Ala Pro Asp Thr Ala Asn Lys Gly Leu Ile Ser Gly Ile Cys Gly Asn
164 210 215 220
167 Leu Glu Met Asn Asp Ala Asp Asp Phe Thr Thr Asp Ala Asp Gln Leu
168 225 230 235 240

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171 Ala Ile Gln Pro Asn Ile Asn Lys Glu Phe Asp Gly Cys Pro Phe Tyr
172                245                250                255
175 Gly Asn Pro Ser Asp Ile Glu Tyr Cys Lys Gly Leu Met Glu Pro Tyr
176                260                265                270
179 Arg Ala Val Cys Arg Asn Asn Ile Asn Phe Tyr Tyr Tyr Thr Leu Ser
180                275                280                285
183 Cys Ala Phe Ala Tyr Cys Met Gly Gly Glu Glu Arg Ala Lys His Val
184                290                295                300
187 Leu Phe Asp Tyr Val Glu Thr Cys Ala Ala Pro Glu Thr Arg Gly Thr
188 305                310                315                320
191 Cys Val Leu Ser Gly His Thr Phe Tyr Asp Thr Phe Asp Lys Ala Arg
192                325                330                335
195 Tyr Gln Phe Gln Gly Pro Cys Lys Glu Ile Leu Met Ala Ala Asp Cys
196                340                345                350
199 Tyr Trp Asn Thr Trp Asp Val Lys Val Ser His Arg Asp Val Glu Ser
200                355                360                365
203 Tyr Thr Glu Val Glu Lys Val Thr Ile Arg Lys Gln Ser Thr Val Val
204                370                375                380
207 Asp Leu Ile Val Asp Gly Lys Gln Val Lys Val Gly Gly Val Asp Val
208 385                390                395                400
211 Ser Ile Pro Tyr Ser Ser Glu Asn Thr Ser Ile Tyr Trp Gln Asp Gly
212                405                410                415
215 Asp Ile Leu Thr Thr Ala Ile Leu Pro Glu Ala Leu Val Val Lys Phe
216                420                425                430
219 Asn Phe Lys Gln Leu Leu Val Val His Ile Arg Asp Pro Phe Asp Gly
220                435                440                445
223 Lys Thr Cys Gly Ile Cys Gly Asn Tyr Asn Gln Asp Ser Thr Asp Asp
224                450                455                460
227 Phe Phe Asp Ala Glu Gly Ala Cys Ala Leu Thr Pro Asn Pro Pro Gly
228 465                470                475                480
231 Cys Thr Glu Glu Gln Lys Pro Glu Ala Glu Arg Leu Cys Asn Asn Leu
232                485                490                495
235 Phe Asp Ser Ser Ile Asp Glu Lys Cys Asn Val Cys Tyr Lys Pro Asp
236                500                505                510
239 Arg Ile Ala Arg Cys Met Tyr Glu Tyr Cys Leu Arg Gly Gln Gln Gly
240                515                520                525
243 Phe Cys Asp His Ala Trp Glu Phe Lys Lys Glu Cys Tyr Ile Lys His
244                530                535                540
247 Gly Asp Thr Leu Glu Val Pro Pro Glu Cys Gln Gly Ser Thr Glu Pro
248 545                550                555                560
251 Gly Leu Glu Glu Val Gly Glu Ile Glu Gln Lys Gln Leu Gln Lys Arg
252                565                570                575
255 Phe Gly Gly Phe Thr Gly Ala Arg Lys Ser Ala Arg Lys Leu Ala Asn
256                580                585                590
259 Gln Gly Ser Val Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro
260                595                600                605
263 Ile Leu Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val
264                610                615                620
267 Ser Gly Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys

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268 625          630          635          640
271 Phe Ile Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val
272          645          650          655
275 Thr Thr Phe Gly Tyr Gly Leu Gln Cys Phe Ala Arg Tyr Pro Asp His
276          660          665          670
279 Met Lys Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val
280          675          680          685
283 Gln Glu Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg
284          690          695          700
287 Ala Glu Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu
288 705          710          715          720
291 Lys Gly Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu
292          725          730          735
295 Glu Tyr Asn Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln
296          740          745          750
299 Lys Asn Gly Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp
300          755          760          765
303 Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly
304          770          775          780
307 Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr Leu Ser Tyr Gln Ser
308 785          790          795          800
311 Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu
312          805          810          815
315 Glu Phe Val Thr Ala Ala Gly Ile Thr Leu Gly Met Asp Glu Leu Tyr
316          820          825          830
319 Lys
323 <210> SEQ ID NO: 3
324 <211> LENGTH: 16
325 <212> TYPE: PRT
326 <213> ORGANISM: mammalian
328 <400> SEQUENCE: 3
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331 1          5          10          15
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335 <211> LENGTH: 16
336 <212> TYPE: PRT
337 <213> ORGANISM: mammalian
339 <400> SEQUENCE: 4
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342 1          5          10          15
345 <210> SEQ ID NO: 5
346 <211> LENGTH: 14
347 <212> TYPE: PRT
348 <213> ORGANISM: mammalian
350 <400> SEQUENCE: 5
352 Ser Glu Gln Lys Gln Leu Gln Phe Gly Gly Phe Thr Gly Gly
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VERIFICATION SUMMARY

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L:8 M:270 C: Current Application Number differs, Replaced Current Application No

L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:10 M:283 W: Missing Blank Line separator, <160> field identifier